

**WHAT IS CLAIMED IS:**

1           1. A plasma display panel, comprising:

2           a front substrate and a rear substrate opposing one another with a predetermined gap  
3           therebetween;

4           a plurality of display electrodes formed on the front substrate;

5           a dielectric layer formed on the front substrate covering the display electrodes;

6           a plurality of first barrier ribs and a plurality of second barrier ribs formed on the rear  
7           substrate essentially perpendicular to each other forming an array of discharge cells, each discharge  
8           cell being completely surrounded by said first and said second barrier ribs;

9           a plurality of phosphor layers formed in the discharge cells; and

10          a plurality of electrically conductive address electrodes being formed orthogonal to the  
11          display electrodes in the discharge cells, said address electrodes being parallel to said first barrier  
12          ribs.

1           2. The plasma display panel of claim 1, the address electrodes being coated with a dielectric

2           material.

1           3. The plasma display panel of claim 1, further comprising fixing grooves formed in edges

2           of the rear substrate at areas corresponding to terminal areas of each of the address electrodes, the

3           fixing grooves securing the terminal ends of the address electrodes.

1           4. The plasma display panel of claim 3, wherein the terminal areas of the address electrodes  
2 positioned in the fixing grooves are further secured by an adhesive member.

1           5. The plasma display panel of claim 1, wherein a height  $t_2$  of the second barrier ribs is less  
2 than a height  $t_1$  of the first barrier ribs.

1           6. The plasma display panel of claim 2, wherein a phosphor layer is further coated on an outer  
2 circumference of the dielectric material coating the address electrodes.

1           7. The plasma display panel of claim 1, wherein the conductive wires forming the address  
2 electrodes are circular in cross section.

1           8. The plasma display panel of claim 1, wherein the conductive wires forming the address  
2 electrodes are polygonal in cross section.

1           9. The plasma display panel of claim 1, wherein the discharge cells defined by the first barrier  
2 ribs and the second barrier ribs have a polygonal shape when viewed from a direction of the front  
3 substrate.

1           10. The plasma display panel of claim 1, wherein the discharge cells defined by the first

2 barrier ribs and the second barrier ribs, have a circular shape when viewed from a direction of the  
3 front substrate.

1 11. The plasma display panel of claim 1, wherein the discharge cells defined by the first  
2 barrier ribs and the second barrier ribs, are rectangular and staggered to discharge cells on an  
3 opposite side of a first barrier rib.

1 12. A plasma display panel, comprising:

2 a front substrate and a rear substrate opposing one another with a predetermined gap  
3 therebetween;

4 a plurality of display electrodes formed on the front substrate;

5 a dielectric layer formed on the front substrate covering the display electrodes;

6 a plurality of barrier ribs formed on the rear substrate and comprising a plurality of first  
7 barrier rib members formed in a direction orthogonal to the display electrodes, and a plurality of  
8 second barrier rib members formed in a direction parallel to the display electrodes, the first barrier  
9 rib members intersecting the second barrier rib members, the plurality of barrier ribs forming an  
10 array of discharge cells, each discharge cell being bounded by a pair of first barrier rib members and  
11 a pair of second barrier rib members;

12 a phosphor layer being formed in respective discharge cells; and

13 address electrodes comprising conductive wires and coated with a dielectric material, the  
14 address electrodes being mounted on the second barrier rib members, the address electrodes being

15 orthogonal to the display electrodes.

1 13. The plasma display panel of claim 12, wherein grooves are formed in distal ends of the  
2 second barrier rib members into which the address electrodes are inserted.

1 14. The plasma display panel of claim 12, wherein a height t2 of the second barrier rib  
2 members are less than a height t1 of the first barrier rib members.

1 15. The plasma display panel of claim 12, further comprising fixing grooves formed in edges  
2 of the rear substrate at areas corresponding to terminal areas of each of the address electrodes, the  
3 fixing grooves securing the terminal areas of the address electrodes.

1 16. The plasma display panel of claim 15, wherein the terminal areas of the address  
2 electrodes positioned in the fixing grooves are further secured by an adhesive member.

1 17. The plasma display panel of claim 12, wherein a phosphor layer is coated on an outer  
2 circumference of the dielectric material coating the address electrodes.

1 18. The plasma display panel of claim 12, wherein the conductive wires forming the address  
2 electrodes are circular in cross section.

1 19. The plasma display panel of claim 12, wherein the conductive wires forming the address  
2 electrodes are polygonal in cross section.

1 20. The plasma display panel of claim 1, wherein the address electrodes are realized through  
2 electrically conductive wires.